

App	lication No.	Applicant(s)
Aladiaa af Allannahilita	697,163 miner	TAKAKUBO, YUTAKA Art Unit
EUN	NCHA P. CHERRY	2872
The MAILING DATE of this communication appears of All claims being allowable, PROSECUTION ON THE MERITS IS (OR Finerewith (or previously mailed), a Notice of Allowance (PTOL-85) or oth NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS of the Office or upon petition by the applicant. See 37 CFR 1.313 and	on the cover sheet with the REMAINS) CLOSED in this a her appropriate communication. This application is subjective.	application. If not included ion will be mailed in due course. THIS
1. This communication is responsive to		
2. ☑ The allowed claim(s) is/are <u>1-8</u> .		
3. \boxtimes The drawings filed on <u>31 October 2003</u> are accepted by the Exa	miner.	
 4. Acknowledgment is made of a claim for foreign priority under 3 a) All b) Some* c) None of the: 1. Certified copies of the priority documents have beer 2. Certified copies of the priority documents have beer 3. Ocpies of the certified copies of the priority document International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this noted below. Failure to timely comply will result in ABANDONMENT THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. INFORMAL PATENT APPLICATION (PTO-152) which gives rea 6. CORRECTED DRAWINGS (as "replacement sheets") must be seen including changes required by the Notice of Draftsperson's Ferror 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's American Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) each sheet. Replacement sheet(s) should be labeled as such in the heat 7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR 1.0 to 1.0	n received. In received in Application No. Into have been received in the second received received in Application. Note the attached EXAMINE seconds) why the oath or declar second received rec	is national stage application from the ally complying with the requirements ER'S AMENDMENT or NOTICE OF a ration is deficient. O-948) attached e Office action of wings in the front (not the back) of the thick o
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 2/2/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summa Paper No./Mail D 7. ☐ Examiner's Amen	Date

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6.0

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-8 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: claims are allowable for the reason that the prior art does not teach or reasonably suggest the at least one of lens surfaces of each of the plurality of second lens groups except the lens surface tiled with respect to the optical surface reference axis of the first lens group that is formed to be an aspherical surface defined by a two-dimensional polynomial expression as set forth in the claimed combination.

Shiraishi (US Patent No. 5,715,078) discloses the scanning optical system for emitting a plurality of beams scanning in a main scanning direction comprising (Figs. 1 and 2): a light source that emits the plurality of beams (3B, 3C, 3M, 3Y); a deflector that simultaneously deflects the plurality of beams incident thereon to scan in the main scanning direction (5), incident angles of the plurality of beams with respect to said deflector being different from each other in an auxiliary scanning direction which is perpendicular to the main scanning direction; and an imaging optical system that of beams deflected by said deflector to form plurality of beam spots scanning on

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respective scan target surfaces in the main scanning direction (Fig. 2, 21), wherein the imaging optical system has: a first lens group though which all of the beams deflected by said deflector pass (27); and a plurality of second lens groups respectively provided for the plurality of beams each of the plurality of beams emerged from said first lens passing through corresponding one of the plurality of second lens groups (39B, 39C, 39M, 39Y), but each of the plurality of second lens groups has a lens surface whose optical surface reference axis is not tilted with respect to an optical surface reference axis of the first lens group and at least one of lens surfaces of each of the plurality of second lens groups except the lens surface tiled with respect to the optical surface reference axis of the first lens group is not formed to be an aspherical surface defined by a two-dimensional polynomial expression.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUNCHA P. CHERRY whose telephone number is 571-272-2310. The examiner can normally be reached on M-F 6:30-4:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DREW DUNN can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

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